

PRO 9

USB 2.0 Multiple Flash Card Reader

User's Manual



Windows 98SE or Windows 2000 users

Please perform software setup first before proceeding to hardware setup.



AtechFlash Technology, Inc.
www.atechflash.com

Congratulations on the purchase of your new AtechFlash Technology PRO 9 flash reader/writer. PRO 9 is a read/write device that supports multiple formats of flash memory cards and we recommend that you read this manual carefully to become familiar with the operation of the product. This manual explains the features and specifications of your new PRO 9 reader, as well as the installation in a few simple steps. Please retain this guide for future reference.

If you have questions regarding your PRO 9 reader, please call our technical support hotline at toll free number (US only)

1-866-85-ATECH (1-866-852-8324)

or email us at

techsupport@atechflash.com

or visit our website at

www.atechflash.com

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PRO 9 is a multi-function, read and write device for today's most popular flash memory card formats. It brings you the benefit of ultra high speed data transferring between your desktop PC and your personal electronic devices, such as Digital Cameras, MP3 Players, PDAs, Voice Recorders, Pocket PCs and many other electronic devices that adopt the flash media formats supported by this product.

Utilizing the most widely equipped USB (Universal Serial Bus) interface in PCs, PRO 9 is based on latest USB 2.0 technology with the capability of transferring data up to 480 Mb/sec via USB 2.0 connection. Backward compatibility design of PRO 9 also allows you to connect to PCs with USB 1.1 interface, operating at USB 1.1 speed.

Convenient feature like Plug-and-Play makes it easy to setup PRO 9 on your computer. On Operating Systems like Windows ME and Windows XP, PRO 9 does not require prior installation of software driver at all.

With the versatile design, PRO 9 can be used externally as a portable unit or mounted internally to a standard 3.5" drive bay of your PC.

Ultra High speed USB 2.0 interface - up to 480 Mb/s transfer rate to access to your flash media cards. It is also backward compatible with USB 1.1 interface.

Internal or External Use - can be installed into a computer 3.5" drive bay or use externally.

Front IEEE 1394 (FireWire) pass-through port* - for easy connection to FireWire devices, such as Digital Video (DV) camcorders, FireWire Hard Drives and etc.

4 independent card slots - allow you to access 4 different media cards concurrently and direct file transferring among media cards in different slots.

USB Bus powered - no additional power adaptor or battery required.

Fully Plug and Play** - No software driver needed on Windows ME, XP or later.

Hot-Swappable - connect or disconnect reader without having to turn your computer off.

Supports all 8 popular flash card formats-

CF - Compact Flash™ card (Type I/II)

MS - Memory Stick™

MS Pro - Memory Stick Pro™

SM - SmartMedia™ Card (3.3V)

SD - Secure Digital™ Card

MMC - MultiMedia™ Card

MD - IBM MicroDrive™

xD - xD picture card™***

* System with IEEE 1394 interface required.

** Software driver required on Windows 98 SE / 2000.

*** xD-Picture Card™ is a trademark owned by Fuji Photo Film Co., Ltd.

Operating System Requirement

Windows 98 SE*

Windows ME

Windows 2000*

Windows XP

A CD ROM Drive may also be required to access the Setup CD when setting up PRO 9 on Windows 98 / 98SE / 2000

For External Setup*

- IBM PC compatible computer with USB port (USB 2.0 or USB 1.1).

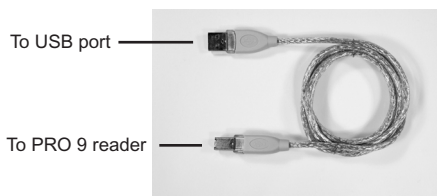
For Internal setup*

- IBM PC compatible computer with USB connection (USB 2.0 or USB 1.1)
- Empty external 3.5" drive bay
- On board USB pin header (refer to your motherboard manual)

* PRO 9 must be connected to an USB 2.0 port if USB 2.0 performance is desired.

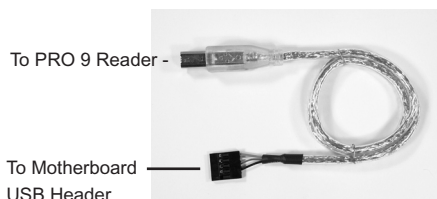
Depending on which version you have purchased, following cables may be included in your PRO 9 Multiple card reader / writer package. Before attempting to connect, please read this manual carefully and determine if software driver setup is required first.

External USB Cable



External USB cable. This cable connects PRO 9 Card Reader to the USB port of your computer. (For external setup only)

Internal USB cable



Internal USB Cable. This cable connects PRO 9 Card Reader to the USB pin header on your motherboard. Due to motherboards may have different USB pin layouts, wire reassignment may be required. Please refer to your motherboard manual for USB header pin assignment information. (For internal setup only).



Standard 6-pin to 6-pin IEEE 1394 (FireWire) cable. This cable connects PRO 9 Card Reader to the FireWire port on your PCI IEEE 1394 FireWire add-on card or the IEEE 1394 port from your motherboard (if equipped). This connection is only necessary if you intend to use the front IEEE 1394 port of PRO 9 Card Reader.

Please note that the front IEEE 1394 port of PRO 9 Card Reader is just a pass-through extension from the IEEE 1394 port in your PC, for port access convenience. PRO 9 Card Reader is not a IEEE 1394 device and it will not function via IEEE 1394 connection alone. USB cable must be connected in order to use PRO 9.

Important !!!!

Windows 98, Windows 98SE or Windows 2000 users

Please perform software setup first before attempting to connect PRO 9 reader.

Windows ME or Windows XP users

Please DO NOT install any software driver or use the setup driver file in PRO 9 Setup CD. Proceed to Hardware setup directly.

Connecting to USB 1.1 port

PRO 9 USB 2.0 Multiple Flash Card Reader is backward compatible with USB 1.1 interface. However, USB 1.1 performance can only be expected when connect to an USB 1.1 port.

Internal setup requires your computer case cover to be removed to access inside components. Please refer to your computer manual for further instruction if needed.

Please also be sure to remove the power plug of your computer to avoid electrical shock or damage to your system.

Windows ME or Windows XP users

Please DO NOT install any software driver or use the setup driver file in PRO 9 Setup CD. Proceed to Hardware setup directly.

- (1) Close all applications that are currently running in your computer, including applications running in background.
- (2) Insert **PRO 9 Setup CD** into you CD ROM drive and locate a "**setup.exe**" file in "PC" folder.
- (3) Double click on "**setup.exe**" file will lead you into setup program.
- (4) Follow setup instruction on your screen.
- (5) Once software setup is completed, Please proceed to Hardware Setup.

<<<To Remove PRO 9 Driver from your computer>>>

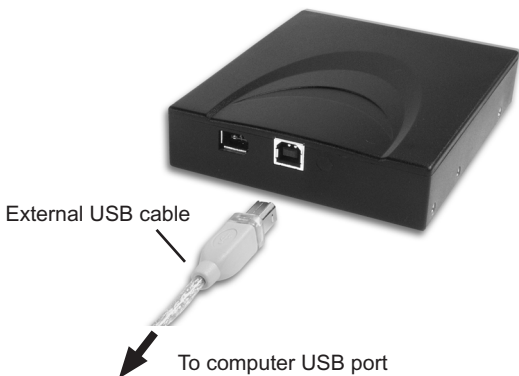
In case if you want to remove PRO 9 setup driver from your computer, please follow the steps below :

- (1) Go to [Start] [Programs] [PRO-9 (USB2.0)] and select [Remove PRO-9 (USB2.0)], then follow the instruction on your screen.

Windows 98, Windows 98SE or Windows 2000 users
Please perform software setup first before proceeding to
hardware setup.

External Setup

To set up PRO 9 reader externally, simply use External USB cable to connect PRO 9 reader to an USB port on your computer. USB ports are usually located at the back of your computer, next to the keyboard and mouse connectors.



It is not necessary to shut down your computer to make the connection. As soon as PRO 9 reader is connected to your USB port, your computer shall detect this reader device and start to build up its driver automatically.

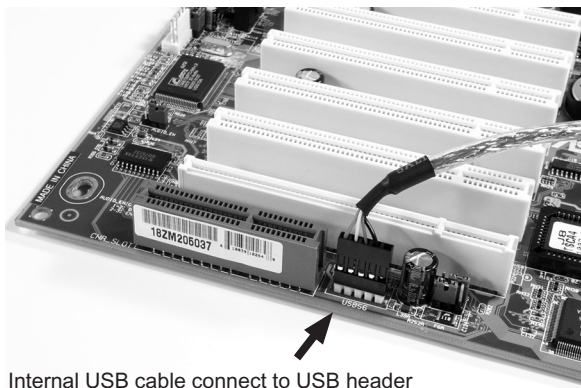
Internal Setup

Internal setup requires your computer case cover to be removed. Like a standard 3.5" floppy drive, PRO 9 reader has 3 screw holes on both sides. Insert PRO 9 reader into one of the empty external 3.5" drive bay and align PRO 9 reader bezel with your computer front bezel evenly. Apply screws on both sides to secure the reader into drive bay.

Use Internal USB cable to connect PRO 9 reader to the USB pin header on your motherboard. Connect the molded end of cable to the USB connector at the back of PRO 9 reader.



Depending on the pin layout on your motherboard USB header, it may be necessary rearrange the color wires of Internal USB cable to match the USB pin assignment. Please refer to your motherboard manual for USB header pin assignment information.



Internal USB cable connect to USB header

Internal USB cable is consist of Red, White, Green and Black wires. Each color wire shall be connected to a specific pin on the USB header.

Red wire = Power (VCC)

White wire = P- (Data-)

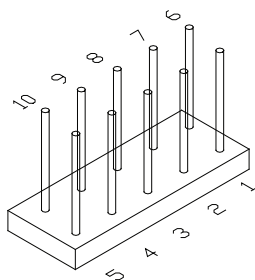
Green wire = P+ (Data+)

Black wire = Ground (GND)

<<< Example >>>

Here is an example base on the motherboard we have.

According to the motherboard manual, we have following pin information on USB header:



Pin 1 = USB Power

Pin 2 = USBP2-

Pin 3 = USBP2+

Pin 4 = GND

Pin 5 = NC

Pin 6 = USB Power

Pin 7 = USBP3-

Pin 8 = USBP3+

Pin 9 = GND

Pin 10 = NC (No pin)

Therefore, we shall have:

Red wire goes to pin 1

White wire goes to pin 2

Green wire goes to pin 3

Black wire goes to pin 4

or

Red wire goes to pin 6

White wire goes to pin 7

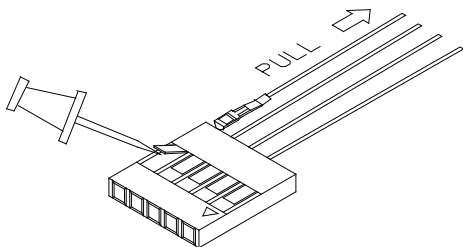
Green wire goes to pin 8

Black wire goes to pin 9

Comparing the default wire setting on the Internal USB cable, no wire reassignment is necessary. We can plug in the black pin connector of Internal USB cable to the USB header directly, with red wire goes to pin 1 or 6.

Please note that your motherboard USB header pin assignment could be different from the example above. If you need to reassign wires on Internal USB cable, please follow the procedure below:

- (1) Determine which wires you need to remove from the black pin connectors first by referring to your motherboard USB header pin layout.
- (2) Use a needle or push pin to flip up the tiny plastic tab and pull the wire out from the connector. Please take caution on this step as excessive force on flipping the tab may cause the tab to break.
- (3) Repeat above step for each wire that requires changing.
- (4) Insert the wire pin back into the correct slot and press the tiny plastic tab down will hold the wire in its position.



Once PRO 9 reader is setup successfully, you shall have 4 **Removable Disk** icons created in **My Computer**. Each of the icons allows you to access the flash media card in the card slot it represents.

Using PRO 9 Multiple Card Reader is very similar to using a floppy drive. Simply insert your flash media card into the slot and click on the appropriate **Removable Disk** icon in **My Computer**, it will allow you to access your flash media card like a disk.

When removing your flash media card from PRO 9 Card Reader slot, please make sure that the file transferring process is fully completed before pulling your flash media card out. Failing to do so may result in card damage.

To Remove PRO 9 Card Reader from your computer

Depending on which version of Windows you have, after the device is setup successfully, you may have a **Safely Remove Hardware** or **Hardware Eject Utility** or **USB Monitor** Icon appeared on the lower right corner of your desktop. Please use this utility to stop PRO 9 Card Reader only when you need to remove the device from your system. (for instance, to use the device on other computers). If you shall accidentally stop the device on this utility, your PRO 9 Card Reader will stop working until system restart.

Attention!

Please be advised that some electronic devices may not be compatible with flash media cards formatted under Windows. We strongly suggest that you format your flash media card in the electronic device it is used.

Dimension (W x H x D):	4.02 inch x 1 inch x 4.92 inch 102 mm x 25 mm x 125 mm
Power Requirement:	5V DC, 500mA (USB Bus power)
Supported media format:	Compact Flash™ (Type I & II), IBM MicroDrive™ , Smart Media™ (3.3V), MultiMedia™, Secure Digital™, Memory Stick™ Memory Stick Pro™ xD picture card™*
Transfer rate :	Up to 480 Mbps (Via USB 2.0) or Up to 12 Mbps (via USB 1.1)
Supported O/S :	Windows 98 SE Windows 2000 Windows ME (No driver required) Windows XP (No driver required) Mac OS 9.1 or later
IEEE 1394 (FireWire) Port:	(Mini) 4 Pin port (pass through), located on product bezel.

*xD-Picture Card™ is a trademark owned by Fuji Photo Film Co., Ltd.

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